



**IBM**

*System and Operator Console Facilities for the IBM 3081*



## *System and Operator Console Facilities for the IBM 3081*

*System console functions for the IBM 3081 Processor Complex are provided by an IBM 3278 Display Console Model 2A.*

*Operator console facilities can be assured by normal end user display terminals, such as the widely used and proven 3278 Display Station or the newly introduced IBM 3279 Colour Display Terminal.*

*To ease your installation of system and operator consoles, specially designed accessory tables are available. They have the space for two displays and provide out-of-sight cable routing for the displays and telephones. One table version also incorporates a bulletin-board-like end panel for the mounting of telephones and the posting of new procedures, messages, schedules and charts.*

### *System console*

*The 3278 Display Console Model 2A attaches directly to the 3082 Processor Controller to allow interaction with the 3081 complex.*

*Special function keys provide the following facilities: initial microcode load; start/stop; interrupt; address compare.*

*In addition, the 3278-2A enables the manual control of functions such as:*

- Central storage display and alteration*
- Channel address selection*
- Operating mode selection (normal or instruction step processing)*
- Console message and central processor and channel activity information display*
- Input/output configuration program (IOCP) control.*

*The IBM 3278-2A incorporates many human factor features designed to improve its usability. For example, a separate, movable keyboard is connected by a flexible cable to the display unit so that both the display screen and keyboard can be positioned to suit individual preferences. An anti-glare filter is incorporated to help reduce reflection from ambient lighting, making it easier to read the characters displayed.*

*The keyboard has been specially designed for use with the 3081 complex. It has a*



*typewriter-style layout, with 12 programmable function keys (through the use of an alternate-shift key), 49 data keys, and two control keys. Five LED indicators allow an operator to see at a glance the status of certain essential system operations: Power in Process, Power Complete, Power Check, Remote Support Active, and IML in Process. The LEDs can be tested via a pushbutton.*

*For unattended operation, a buzzer under program control alerts an operator to a special condition. The buzzer also sounds when a character being keyed is entered into the next-to-last position on the screen. The volume of the tone is adjustable. In addition, an audible alarm is located in the 3082.*

*Up to 20 of the 24 eighty-character lines of the display may be used for system communication. The remaining four lines give:*

- Current system status*
- Messages for the system operator*
- Commands entered by the system operator*
- Messages unique to the display.*

*Information on the screen can be printed on an optional IBM 3287 Printer Model 1 or 2 to provide a permanent report of system activity.*

*The 3278-2A is supplied with a 15 metre (49 feet) long cable. However, it can be optionally connected at up to 1500 cable metres (4920 feet) from the Processor Controller.*



## *Operator consoles*

### *3278 Display Station*

*Models attachable are:*

- 3278 Model 1: 12 lines of 80 characters each*
  - 3278 Model 2: 24 lines of 80 characters each*
  - 3278 Model 3: 32 lines of 80 characters each*
  - 3278 Model 4: 43 lines of 80 characters each*
- to give a high capacity display of up to 3440 characters.*

*The last line on the displays gives console status.*

*All models feature an anti-glare screen and a separate, cable-connected keyboard, which is low in profile, provides a palm rest area and has separators to help prevent accidental striking of control keys. A choice of keyboards, with up to 24 program function keys, and an optional selector light-pen help to enhance ease-of-use for operators.*

*The 3278 connects to the 3081 Processor Unit via an IBM 3274 Control Unit Model 1B or 1D at distances of up to 1500 cable metres (4920 feet).*



### *IBM 3279 Colour Display Terminal*

*Many end users are finding the new IBM 3279 Colour Display Terminals of great value in identifying consistent or critical information quickly.*

*With appropriate support in the IBM 3274 Control Unit Model 1D, the 3279 can display information in white, blue, and green to bring similar benefits to 3081 operators.*

*The 3279 comprises a separate keyboard connected by a flexible cable to a high-resolution cathode ray tube display. Models 2A and 2B can display up to 1920 characters on 24 eighty-character lines, while Models 3A and 3B can display up to 2560 characters on 32 eighty-character lines. The physical screen size is identical for all models. The last line of the displays (25th and 33rd) is reserved for operator information.*

*The 3279 can be connected, via a 3274 Control Unit Model 1D, at distances of up to 1500 cable metres (4920 feet) from the 3081 Processor Unit.*

### *Console backup*

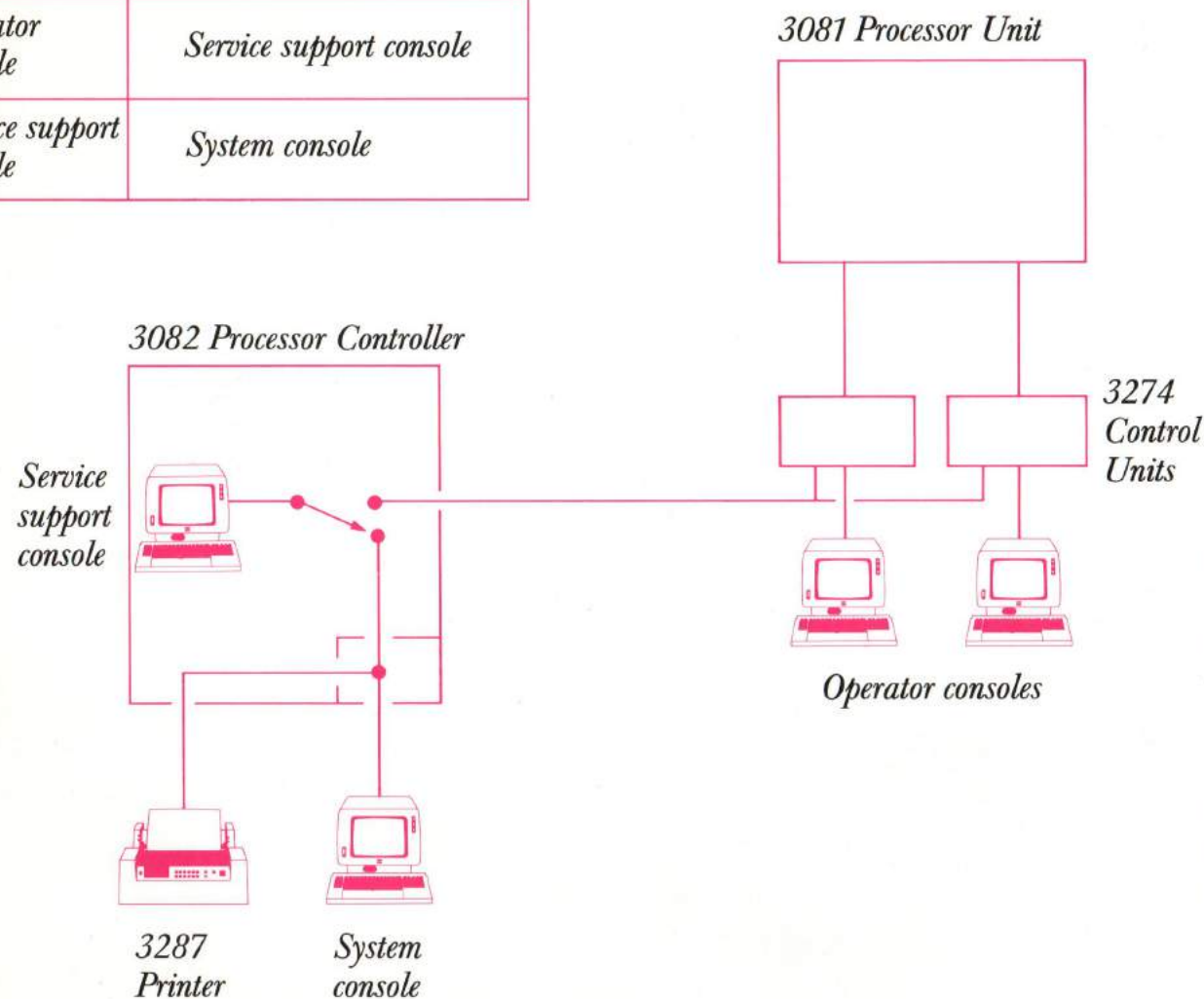
*The 3081 Processor Complex includes the following consoles:*

- System console*
- Operator console*
- Service support console (in the 3082 Processor Controller).*

*Through the installation of optional cabling and the use of appropriate switching, many backup possibilities exist to by-pass a malfunctioning console in order to maintain system operation.*

	<i>Backed up by:</i>
<i>System console</i>	<i>Service support console</i>
<i>Operator console</i>	<i>Service support console</i>
<i>Service support console</i>	<i>System console</i>

*Recommended console configuration  
for 3081 Processor Complex:*



The pictures show design models only

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